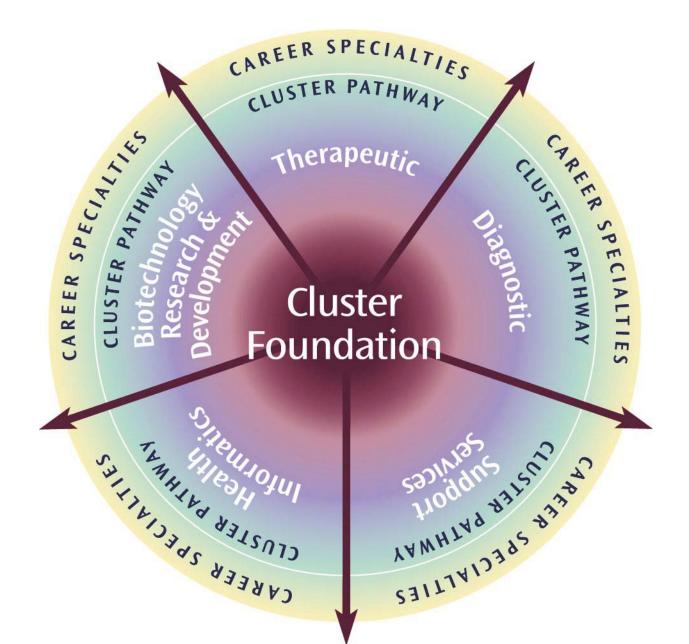
Utah Health Science & Technology Education

Jordan High School June 22, 2003

Presented by:

Rachel Eborn





Health Science Career Cluster

alth Science

'lanning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

support services, and biotechnology research and development.					
Sample Career Specialties/Occupations	Acupuncturist Anesthesiologist Assistant Art / Music / Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Dental Assistant / Hygienist Dental Lab Technician Dentist Dietician Dosimetrist EMT Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Medical Assistant Mortician Occupational Therapist / Asst Ophthalmic Medical Personnel Optometrist Paramedic Pharmacist/Pharmacy Tech Physician (MD/DO) Physician's Assistant Psychologist Recreation Therapist Registered Nurse Respiratory Therapist Social Worker Speech Language Pathologist Surgical Technician Veterinarian / Vet Tech	 Cardiovascular Technologist Clinical Lab Technician Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologists Diagnostic Medical Sonographers Electrocardiographic (ECG) Technician Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Histotechnician Histotechnologist Magnetic Resonance (MR) Technologist Mammographer Medical Technologist / Clinical Laboratory Scientist Nuclear Medicine Technologist Nutritionist Pathologist Pathologist Pathologist Pathologist Pathologist Pathologist Pathologist RadiologicTechnologist/Radiographer Radiologist Radiologist 	 Admitting Clerk Applied Researcher Community Services Specialists Data Analyst Epidemiologist (SHSMD Stratsocieety.org) Ethicist Health Educator Health Information Coder Health Information Services Health Care Administrator Medical Assistant Medical Biller/Patient Financial Services Medical Information Technologist Medical Librarian/Cybrarian Patient Advocates Public Health Educator Reimbursement Specialist (HFMA) Risk Management Social Worker Transcriptionist Unit Coordinator Utilization Manager 	 Biomedical / Clinical Engineer Biomedical / Clinical Technician Central Services Environmental Health and Safety Environmental Services Facilities Manager Food Service Hospital Maintenance Engineer Industrial Hygienist Materials Management Transport Technician 	Biochemist Bioinformatics Associate Bioinformatics Scientist Bioinformatics Specialist Biomedical Chemist Biostatistician Cell Biologist Clinical Trials Research Associate Clinical Trials Research Coordinator Geneticist Lab Assistant-Genetics Lab Technician Microbiologist Molecular Biologist Pharmaceutical Scientist Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Associate Research Scientist Toxicologist Toxicologist
Pathways	Therapeutic Services	Diagnostics Services	Health Informatics	Support Services	Biotechnology Research and Development
Cluster K & S	Cluster Knowledge and Skills ◆ Academic Foundation ◆ Communications ◆ Systems ◆ Employability Skills ◆ Legal Responsibilities ◆ Ethics ◆ Safety Practices ◆ Teamwork ◆ Health Maintenance Practices ◆ Technical Skills ◆ Information Technology Applications				

MISSION STATEMENT...

Provide All Students

A

Seamless Education System

Driven By A

Student Education Occupation Plan (SEOP)

Through

Competency-Based Instruction

Culminating In

Essential Life Skills, Certified Occupational Skills,

And

Meaningful Employment.

HST Program...

Health Science and Technology (HST) Education is a secondary program that motivates and prepares students for pursuit of a health care profession. The program is based on:

- Employment needs of the health care community.
- Individual needs of students.
- National Health Care Skill Standards.
- Health care leadership and technical skills.
- Postsecondary education requirements.

Health Care Trends

National

- 2010 76 Million Medicare Eligible
- 2010 1 out of 6 jobs will be related to healthcare.
- Critical shortages currently exist.
- Industry focus will include Biotechnology and Pharmaceuticals.

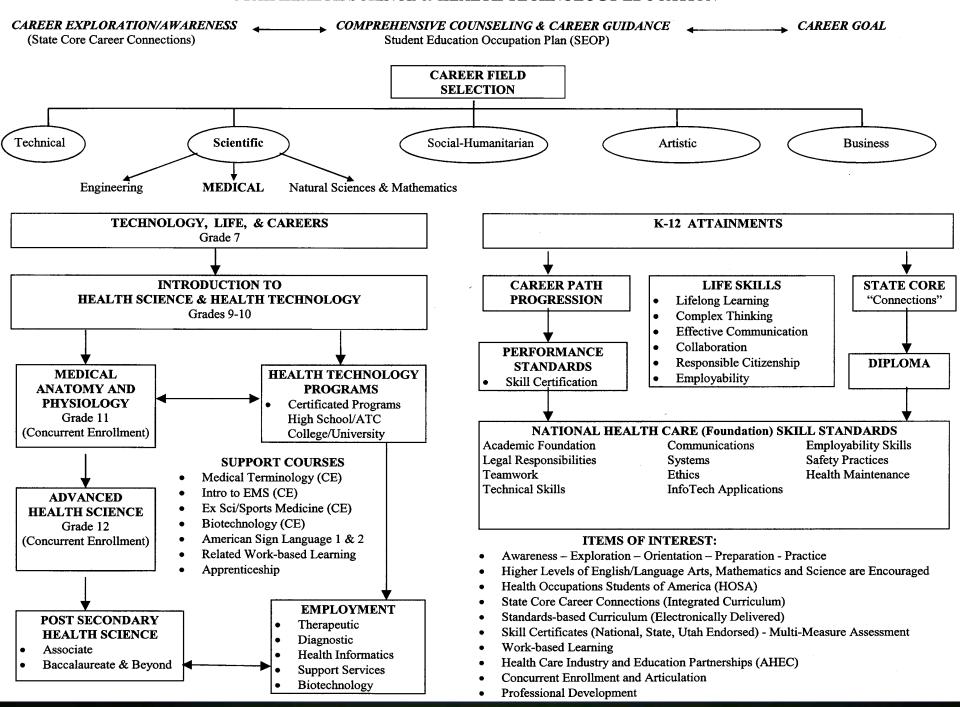
Utah

- Health Services Industry (New Jobs):
 - 40% of new jobs will occur in the services sector.
 - 23% of these will be in the health services industry alone.
- Rural communities create rural healthcare providers.

Continuum of Training / Education

- Public Education (K-12)
- Utah College of Applied Technology
- Colleges
- Universities

UTAH HEALTH SCIENCE & HEALTH TECHNOLOGY EDUCATION



Standards-based

- National Healthcare Foundation Skill Standards
 - Introduction to HST
 - Medical Anatomy & Physiology (MAP)
 - Health Occupations Professional Essentials (HOPE)
 - First Aid & CPR
- Biotechnology
- Exercise Science / Sports Medicine
- Dental, Medical & Nurse Assisting

Program Components

- Integration
- Work-based Learning
- Skill Certification
- Concurrent Enrollment / Articulation
- Electronic Delivery

*Program Components Are Partnership Based

Integration

- National Model Integrated Into All Academic Disciplines (K-12)
- K-8 Core Career Connections
- State Science & Health "Core" Integration

Work-based Learning

- Component of All HST Programs
 - Hands-on
 - Simulation
 - Electronic
- Requirement for Programs Offering Certification, Registration or Licensure
- Legislation to Support Liability & Funding

Skill Certification

- Demonstrates the Effectiveness of Applied Technology Education
- Improve Quality of Programs
- Accountable for Funding Generation
- Key Components Prior to Implementation
 - Standards Identified and Validated by Industry
 - Curriculum Alignment
 - Assessment Validation
 - Instructor Training

Assessment / Certificate Program

National Occupational Competency Testing Institute (NOCTI)

- In Partnership with NCHSTE & National HOSA
- Cluster Foundation Standards
- Portable, Recognized & Valued by Stakeholders
- Internet Accessible
- Portfolio Component
- Pre-test
- Post-test
- HOPE Pilots

Concurrent Enrollment

- Dual Credit Issued (High School & College)
- Adjunct Faculty
- Courses Offering Concurrent Enrollment:
 - Medical Anatomy & Physiology
 - Medical Terminology
 - Advanced Health Science
 - Biotechnology
 - Introduction to Emergency Medical Services
 - Exercise Science/Sports Medicine
- Career Path Progression / Articulation

For Additional Information

Visit Utah's HST Homepage at www.usoe.k12.ut.us/ate/HST/hst.htm

or contact Scott Snelson at

Utah State Office of Education PO Box 144200

Salt Lake City, UT 84114-4200

(801) 538-7889

www.ssnelson@usoe.k12.ut.us

